



16, Nan-ke 9th Rd., Science-based Industrial Park, Tainan, Taiwan

Tel: +886-6-6008999 Fax: +886-6-5050826

<http://www.f-tech.com.tw>

Model No.: FR0433M92-TE11

Rev. No.: 1

433.92 MHz SAW Resonator

A. Feature:

1. One-port SAW Resonator

B. Maximum Ratings:

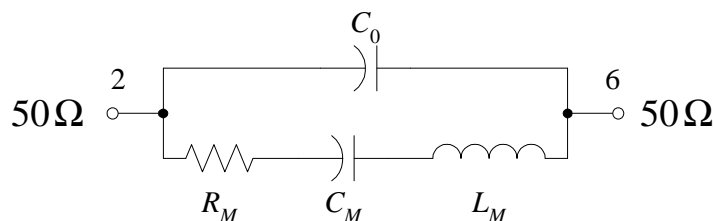
1. Input Power Level: 0dBm
2. DC Voltage: 12V
3. Storage Temperature: -40°C to +85°C
4. Operating Temperature Range: -40°C to +85°C

C. Electrical Specifications:

Ambient Temperature: 25°C

Item	Unit	Min.	Typ.	Max.
Center Frequency, f_r	MHz	433.845	433.92	433.995
Insertion Loss, IL	dB	-	1.2	2.0
Unloaded quality factor, Q_U		-	15000	-
Loaded quality factor, Q_L		-	2000	-
RF Equivalent RLC Model				
Motional Resistance, R_M	Ω	-	13	-
Motional Capacitance, C_M	fF	-	72.440	-
Motional Inductance, L_M	μ H	-	1.916	-
Shunt Static Capacitance, C_0	pF	-	2.690	-
Turnover Temperature, T_0	°C	-	30	-
Frequency Temperature Coefficient, FTC	ppm/k ²	-	0.032	-

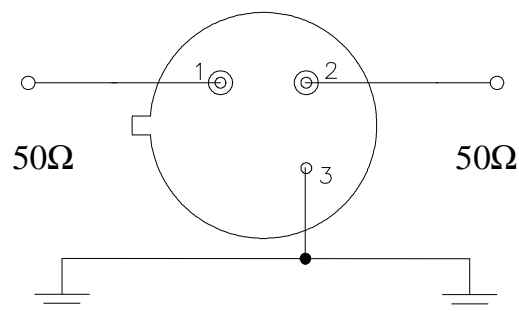
D. RF Equivalent Model:



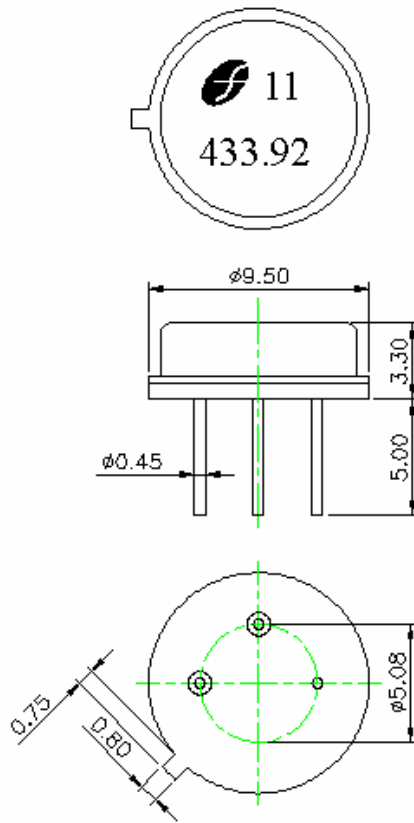
E. Characteristics:



F. Test Circuit:



G. Package and pin configuration:



(Unit: mm)
Pin 1: Input
Pin 2: Output
Pin 3: Ground